

CLAIMS

I claim:

1 1. An add-on safety harness for a vehicle seat having a lap belt comprising:
2 an elongated main seat anchor strap having a snap-on buckle on one end and a buckle tongue
3 on an opposite end; and
4 a pair of shoulder harness straps extending from opposite sides of said anchor strap at an acute
5 angle, each said shoulder harness strap having a proximate end attached to said anchor strap and a
6 distal end ending in a loop; and
7 length adjustment means for adjusting the length of each said shoulder strap;
8 whereby one end of a conventional lap belt is threaded through said loops of the shoulder
9 harness straps to secure a passenger and the adjustment means being used to adjust the length of said
10 shoulder harness straps.

1 2. The add-on safety harness according to claim 1, wherein said length adjustment means
2 comprises an adjuster disposed medially on each shoulder strap.

1 3. The add-on safety harness according to claim 2, further including a strip of soft
2 material having hook and loop fastening material attached to each said adjuster for surrounding each
3 said adjuster device.

1 4. The add-on safety harness according to claim 1, further including a pair of leg harness
2 straps extending from opposite sides of said anchor strap at an angle, each said leg harness strap
3 having a proximate end attached to said anchor strap and a distal end ending in a loop, and said loops
4 of said leg straps positioned so as to have said loops of said shoulder harness straps disposed
5 therebetween.

1 5. The add-on safety harness according to claim 1, further including a pair of leg harness
2 straps extending from opposite sides of said anchor strap at an angle, each said leg harness strap
3 having a proximate end attached to said anchor strap and a distal end ending in a loop, and said loops
4 of said leg straps positioned so as to be disposed between said loops of said shoulder harness straps.

1 6. The add-on safety harness according to claim 1, further including an additional strap
2 member having a first end, a second end, a first mating fastener part coupled to said first end, a second
3 mating fastener part coupled to said second end, and at least one adjuster for adjusting the length of
4 said additional strap;

5 wherein said additional strap member is disposed around the pair of harness straps for
6 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
7 vehicle.

1 7. The add-on safety harness according to claim 1, further including an additional rigid
2 member having a first portion, a second portion, a first mating fastener part coupled to said first
3 portion, a second mating fastener part coupled to said second portion;

4 wherein said additional rigid member is disposed around the pair of harness straps for
5 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
6 vehicle.

1 8. An add-on safety harness for vehicles having at least a lap belt and an anchor point,
2 comprising:

3 a seat anchor strap having a first end and a second end, a clip-on fastener coupled to said first
4 end;

5 a pair of harness straps extending from said second end, and extending from opposite sides of
6 said anchor strap at an angle, each said harness strap having a length, a proximate end fixedly attached
7 to said anchor strap and a distal end ending in a loop, whereby forming an inverted Y-shape; and

8 an adjustment device, disposed on each harness strap, designed and configured to adjust the
9 length of each said harness strap;

10 wherein said clip-on fastener is releasibly attached to an anchor point of the vehicle; one end
11 of a lap belt of the vehicle is threaded through said loops of said harness straps, whereby a passenger
12 is secured into the vehicle seat, and said adjustment device is used to adjust the tension length of said
13 harness straps.

1 9. The add-on safety harness according to claim 8, further including a strip of soft
2 material having hook and loop fastening material attached to each said harness strap, in proximity to
3 each adjustment device, said strip of soft material releasibly surrounding each said adjuster device.

1 10. The add-on safety harness according to claim 8, further including an additional strap
2 member having a first end, a second end, a first mating fastener part coupled to said first end, a second
3 mating fastener part coupled to said second end, and at least one adjuster for adjusting the length of
4 said additional strap;

5 wherein said additional strap member is disposed around the pair of harness straps for
6 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
7 vehicle.

1 11. The add-on safety harness according to claim 8, further including an additional rigid
2 member having a first portion, a second portion, a first mating fastener part coupled to said first
3 portion, a second mating fastener part coupled to said second portion;

4 wherein said additional rigid member is disposed around the pair of harness straps for
5 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
6 vehicle.

1 12. An add-on safety harness kit for vehicle seats having at least a lap belt comprising:
2 an anchor strap having a first end and a second end, a clip-on fastener coupled to said first end;
3 a pair of harness straps extending from said second end, and extending from opposite sides of
4 said anchor strap at an angle, each said harness strap having a length, a proximate end fixedly attached
5 to said anchor strap and a distal end ending in a loop, whereby forming an inverted Y-shape;
6 an adjustment device, disposed on each harness strap, designed and configured to adjust the
7 length of each said harness strap; and
8 hardware for adapting a portion of a vehicle to define an anchor point, said hardware including
9 at least a bolt, a first washer, an angled plate having an eyelet and a bolt hole, a second washer, and
10 a nut, said angled plate being mounted to the vehicle using said bolt through said bolt hole, said first
11 washer, said second washer, and said nut;
12 wherein said clip-on fastener is releasibly attached to said eyelet of said angled plate; one end
13 of a lap belt of the vehicle is threaded through said loops of said harness straps, whereby a passenger
14 is secured into the vehicle seat, and said adjustment device is used to adjust the tension length of said
15 harness straps.

1 13. The add-on safety harness kit according to claim 12, further including a strip of soft
2 material having hook and loop fastening material attached to each said harness strap, in proximity to
3 each adjustment device, said strip of soft material releasibly surrounding each said adjuster device.

1 14. The add-on safety harness kit according to claim 12, further including an additional
2 strap member having a first end, a second end, a first mating fastener part coupled to said first end,
3 a second mating fastener part coupled to said second end, and at least one adjuster for adjusting the
4 length of said additional strap;

5 wherein said additional strap is disposed around the pair of harness straps for maintaining the
6 pair of harness straps in a proximal position about the chest of the passenger of a vehicle.

1 15. The add-on safety harness according to claim 12, further including an additional rigid
2 member having a first portion, a second portion, a first mating fastener part coupled to said first
3 portion, a second mating fastener part coupled to said second portion;

4 wherein said additional rigid member is disposed around the pair of harness straps for
5 maintaining the pair of harness straps in a proximal position about the chest of the passenger of a
6 vehicle.

1 16. The add-on safety harness kit according to claim 12, wherein said clip-on fastener is
2 fixedly attached to said first end of said anchor strap.

1 17. The add-on safety harness kit according to claim 12, wherein said clip-on fastener is
2 slidably attached to said first end of said anchor strap, wherein the length of the anchor strap is
3 adjustable.

1 18. The add-on safety harness kit according to claim 12, wherein said hardware is mounted
2 to a sure frame component of the vehicle seat.

1 19. The add-on safety harness kit according to claim 12, wherein said hardware is mounted
2 to a sure frame component of the vehicle floor, beneath the vehicle seat.

1 20. The add-on safety harness kit according to claim 12, wherein said hardware is mounted
2 to a sure frame component of the vehicle body behind the vehicle seat.